

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image forming apparatus comprising:

an image forming unit which forms an image on one surface of a printing medium;

a platen;

a feeding device which transports the printing medium in a feed direction along the platen while the other surface of the printing medium faces a surface of the platen; and

a suction device which sucks air, wherein:

the platen includes:

first protrusions which protrude from the surface of the platen and extend in parallel with the feed direction and are arranged at predetermined intervals in a direction perpendicular to the feed direction;

recesses which are defined between adjacent ones of the first protrusions and extend in the feed direction;

second protrusions which protrude from the surface of the platen and are provided on downstream and upstream sides, respectively, in the feed direction with respect to an image forming region where the image forming unit forms an image, and extend in the direction perpendicular to the feed direction; and

suction ports which are defined on both the downstream and upstream sides, respectively, in the feed direction with respect to the image forming region in each of recesses surrounded by the adjacent ones of the first protrusions and the second protrusions on the upstream side and the downstream side, and communicate with the suction device,

wherein the image forming unit includes a carriage which moves the recording head forward and backward in a predetermined direction; and

the suction ports are provided outside a region where the carriage has substantially the same height as the nozzle surface of the recording head.

2. (Currently Amended) The image forming apparatus according to claim 1, wherein each of second projections-protrusions is connected to or adjacent to at least two of the first projectionsprotrusions.

3. (Original) The image forming apparatus according to claim 1, wherein:
a height of each second protrusion provided on the upstream side in the feed direction is substantially equal to those of the first protrusions; and
a height of each second protrusion provided on the downstream side in the feed direction is lower than those of the first protrusions.

4. (Original) The image forming apparatus according to claim 1, wherein at least one of the recesses includes a slope which is formed between at least one of the first and second protrusions and the suction ports.

5. (Original) The image forming apparatus according to claim 1, wherein a height of each second protrusion, which corresponds to a position of each side edge of the printing medium in the direction perpendicular to the feed direction and is provided on the downstream side in the feed direction, is lower than those of the first protrusions or substantially equal to those of the recesses.

6. (Original) The image forming apparatus according to claim 1, wherein the first protrusions are arranged at such intervals that the interval on an end side of the platen is wider than that on a central portion of the platen in the direction perpendicular to the feed direction.

7. (Original) The image forming apparatus according to claim 1, wherein the image forming unit ejects ink toward the platen.
8. (Original) The image forming apparatus according to claim 7, wherein:
 - the image forming unit includes a nozzle surface facing the platen for ejecting ink; and
 - the suction ports on at least one of the upstream side and the down stream side in the feed direction are provided in a region of the platen, which is outside a region where the platen faces the nozzle surface.
9. (Original) The image forming apparatus according to claim 8, wherein:
 - the image forming unit includes a recording head having the nozzle surface facing the platen; and
 - the suction ports are provided in a region of the platen, which is outside a region where the platen faces the recording head.
10. (Canceled)
11. (Currently Amended) The image forming apparatus according to ~~claim 10, claim 9~~, wherein the suction ports are provided in a region, which is outside a region where the recording head is moved by the carriage.
12. (Original) The image forming apparatus according to claim 1, wherein the platen includes an air chamber which communicates with the suction ports provided on at least one of the upstream and downstream sides of the platen.
13. (Original) The image forming apparatus according to claim 12, wherein a total area of the suction ports provided on the upstream side of the platen is equal to that of the suction ports provided on the downstream side of the platen.

14. (Currently Amended) An image forming apparatus ~~comprising~~comprising:
an image forming unit which forms an image on one surface of a printing
medium;
a platen;
a feeding device which transports the printing medium in a feed direction
along the platen while the other surface of the printing medium faces a surface of the platen;
and
a suction device which sucks air, wherein:
the platen includes:
first protrusions which protrude from the surface of the platen and
extend in parallel with the feed direction and are arranged at predetermined intervals in a
direction perpendicular to the feed direction;
recesses which are defined between adjacent ones of the first
protrusions and extend in the feed direction;
second protrusions which protrude from the surface of the platen and
are provided on downstream and upstream sides, respectively, in the feed direction with
respect to an image forming region where the image forming unit forms an image, and extend
in the direction perpendicular to the feed direction; and
suction ports which are defined in a predetermined region in the
vicinity of the second ~~projections~~protrusions and ~~inside the second protrusions~~at least one of
~~downstream of the second protrusions~~, in a situation in which the second protrusions are
~~located at the upstream side of the image forming region, and upstream of the second~~
~~protrusions, in a situation in which the second protrusions are located at the downstream side~~
~~of the image forming region, and communicate with the suction device; and~~

at least part of the second projections-protrusions on the upstream side and the second projections-protrusions on the downstream side are disposed in two rows in a staggered configuration.

15. (Currently Amended) The image forming apparatus according to claim 14, wherein each of second projections-protrusions is connected to or adjacent to at least two of the first projections-protrusions.

16. (Original) The image forming apparatus according to claim 14, wherein at least one of the recesses includes a slope which is formed between at least one of the first and second protrusions and the suction ports.

17. (Original) The image forming apparatus according to claim 14, wherein a height of each second protrusion, which corresponds to a position of each side edge of the printing medium in the direction perpendicular to the feed direction and is provided on the downstream side in the feed direction, is lower than those of the first protrusions or substantially equal to those of the recesses.

18. (Original) The image forming apparatus according to claim 14, wherein the first protrusions are arranged at such intervals that the interval on an end side of the platen is wider than that on a central portion of the platen in the direction perpendicular to the feed direction.

19. (Original) The image forming apparatus according to claim 14, wherein the image forming unit ejects ink toward the platen.

20. (Original) The image forming apparatus according to claim 19, wherein:
the image forming unit includes a nozzle surface facing the platen for ejecting ink; and

the suction ports on at least one of the upstream side and the down stream side in the feed direction are provided in a region of the platen, which is outside a region where the platen faces the nozzle surface.

21. (Original) The image forming apparatus according to claim 20, wherein:

the image forming unit includes a recording head having the nozzle surface facing the platen; and

the suction ports are provided in a region of the platen, which is outside a region where the platen faces the recording head.

22. (Original) The image forming apparatus according to claim 21, wherein:

the image forming unit includes a carriage which moves forward and backward the recording head in a predetermined direction; and

the suction ports are provided outside a region where the carriage has substantially the same height as the nozzle surface of the recording head.

23. (Original) The image forming apparatus according to claim 22, wherein the suction ports are provided in a region, which is outside a region where the recording head is moved by the carriage.

24. (Original) The image forming apparatus according to claim 14, wherein the platen includes an air chamber which communicates with the suction ports provided on at least one of the upstream and downstream sides of the platen.

25. (Original) The image forming apparatus according to claim 24, wherein a total area of the suction ports provided on the upstream side of the platen is equal to that of the suction ports provided on the downstream side of the platen.

26. (Currently Amended) An image forming apparatus comprising
an image forming unit which forms an image on one surface of a printing medium;

a platen;

a feeding device which transports the printing medium in a feed direction

along the platen while the other surface of the printing medium faces a surface of the platen;

and

a suction device which sucks air, wherein:

the platen includes:

first protrusions which protrude from the surface of the platen and

extend in parallel with the feed direction and are arranged at predetermined intervals in a

direction perpendicular to the feed direction;

recesses which are defined between adjacent ones of the first protrusions and extend in the feed direction;

second protrusions which protrude from the surface of the platen and are provided on at least one of upstream side and ~~down-downstream~~ side in the feed direction with respect to an image forming region where the image forming unit forms an image, and extend in the direction perpendicular to the feed direction; and

suction ports which are defined in a predetermined region of at least one of the recesses in the vicinity of the second ~~projections-protrusions~~ and in another region of at least one of the recesses distant from the predetermined region in the feed direction, are defined at least one of downstream of the second protrusions, in a situation in which the second protrusions are located at the upstream side of the image forming region, and upstream of the second protrusions, in a situation in which the second protrusions are located at the downstream side of the image forming region ~~inside the second protrusions~~, and communicate with the suction device,

wherein the image forming unit includes a carriage which moves the recording head forward and backward the recording head in a predetermined direction; and

the suction ports are provided outside a region where the carriage has substantially the same height as the nozzle surface of the recording head.

27. (Currently Amended) The image forming apparatus according to claim 26, wherein each of second projections-protrusions is connected to or adjacent to at least two of the first projectionsprotrusions.

28. (Original) The image forming apparatus according to claim 26, wherein at least one of the recesses includes a slope which is formed between at least one of the first and second protrusions and the suction ports.

29. (Original) The image forming apparatus according to claim 26, wherein a height of each second protrusion, which corresponds to a position of each side edge of the printing medium in the direction perpendicular to the feed direction and is provided on the downstream side in the feed direction, is lower than those of the first protrusions or substantially equal to those of the recesses.

30. (Original) The image forming apparatus according to claim 26, wherein the first protrusions are arranged at such intervals that the interval on an end side of the platen is wider than that on a central portion of the platen in the direction perpendicular to the feed direction.

31. (Original) The image forming apparatus according to claim 26, wherein the image forming unit ejects ink toward the platen.

32. (Original) The image forming apparatus according to claim 31, wherein:
the image forming unit includes a nozzle surface facing the platen for ejecting ink; and

the suction ports on at least one of the upstream side and the down stream side in the feed direction are provided in a region of the platen, which is outside a region where the platen faces the nozzle surface.

33. (Original) The image forming apparatus according to claim 32, wherein:
the image forming unit includes a recording head having the nozzle surface
facing the platen; and
the suction ports are provided in a region of the platen, which is outside a
region where the platen faces the recording head.

34. (Canceled)

35. (Currently Amended) The image forming apparatus according to ~~claim 34,~~
claim 33, wherein the suction ports are provided in a region, which is outside a region where
the recording head is moved by the carriage.

36. (Original) The image forming apparatus according to claim 26, wherein the
platen includes an air chamber which communicates with the suction ports provided on at
least one of the upstream and downstream sides of the platen.

37. (Original) The image forming apparatus according to claim 36, wherein a total
area of the suction ports provided on the upstream side of the platen is equal to that of the
suction ports provided on the downstream side of the platen.

38. (Currently Amended) An image forming apparatus comprising:
an image forming unit which forms an image on one surface of a printing
medium;
a platen;
a feeding device which transports the printing medium in a feed direction
along the platen while the other surface of the printing medium faces a surface of the platen;
and
a suction device which sucks air, wherein:
the platen includes:

a plurality of paper receiving surfaces which are provided on the surface of the platen and extend in parallel with the feed direction and are provided at predetermined intervals in a direction perpendicular to the feed direction;

recesses which are defined between adjacent ones of the paper receiving surfaces and extend in the feed direction;

estrangements which are provided on one of upstream side and downstream side of at least a part of the recesses in the feed direction and estrange the printing medium and the recesses; and

suction ports which are defined on the other of the upstream side and the downstream side in the feed direction and communicate with the suction device,

wherein the image forming unit includes a carriage which moves the recording head forward and backward in a predetermined direction; and

the suction ports are provided outside a region where the carriage has substantially the same height as the nozzle surface of the recording head.

39. (Currently Amended) A platen comprising:

a plurality of paper receiving surfaces which are provided on a surface of the platen and extend in parallel with a predetermined direction and are provided at predetermined intervals in a direction perpendicular to the predetermined direction;

recesses which are defined between adjacent ones of the paper receiving surfaces and extend in the predetermined direction;

estrangements which are provided on at least one of upstream side and downstream side of at least a part of the recesses in the predetermined direction and estrange the printing medium and the recesses; and

suction ports which are defined on at least one of the upstream side and the downstream side in the feed direction and on a surface of at least a part of the recesses,

wherein the image forming unit includes a carriage which moves the recording head forward and backward in a predetermined direction; and
the suction ports are provided outside a region where the carriage has substantially the same height as the nozzle surface of the recording head.

40. (New) The image forming apparatus according to claim 1, wherein the suction ports are formed at both downstream and upstream ends of the recesses.

41. (New) The image forming apparatus according to claim 26, wherein the predetermined region is located at an end of the recesses with respect to the feed direction.

42. (New) The image forming apparatus according to claim 38, wherein the suction ports are defined in a predetermined region located at an end of the recesses with respect to the feed direction.

43. (New) The image forming apparatus according to claim 39, wherein the suction ports are defined in a predetermined region located at an end of the recesses with respect to the feed direction.

44. (New) An image forming apparatus comprising:
an image forming unit which forms an image on one surface of a printing medium;

a platen;
a feeding device which transports the printing medium in a feed direction along the platen while the other surface of the printing medium faces a surface of the platen;
and

a suction device which sucks air, wherein:
the platen includes:

first protrusions which protrude from the surface of the platen and extend in parallel with the feed direction and are arranged at predetermined intervals in a direction perpendicular to the feed direction;

recesses which are defined between adjacent ones of the first protrusions and extend in the feed direction;

second protrusions which protrude from the surface of the platen and are provided on downstream and upstream sides, respectively, in the feed direction with respect to an image forming region where the image forming unit forms an image, and extend in the direction perpendicular to the feed direction; and

suction ports which are defined on both the downstream and upstream sides, respectively, in the feed direction with respect to the image forming region in each of recesses surrounded by the adjacent ones of the first protrusions and the second protrusions on the upstream side and the downstream side, and communicate with the suction device, wherein the first protrusions are arranged at such intervals that the interval on an end side of the platen is wider than that on a central portion of the platen in the direction perpendicular to the feed direction.

45. (New) An image forming apparatus comprising:

an image forming unit which forms an image on one surface of a printing medium;

a platen;

a feeding device which transports the printing medium in a feed direction along the platen while the other surface of the printing medium faces a surface of the platen; and

a suction device which sucks air, wherein:

the platen includes:

first protrusions which protrude from the surface of the platen and extend in parallel with the feed direction and are arranged at predetermined intervals in a direction perpendicular to the feed direction;

recesses which are defined between adjacent ones of the first protrusions and extend in the feed direction;

second protrusions which protrude from the surface of the platen and are provided on at least one of upstream side and downstream side in the feed direction with respect to an image forming region where the image forming unit forms an image, and extend in the direction perpendicular to the feed direction; and

suction ports which are defined in a predetermined region of at least one of the recesses in the vicinity of the second protrusions and in another region of at least one of the recesses distant from the predetermined region in the feed direction, are defined at least one of downstream of the second protrusions, in a situation in which the second protrusions are located at the upstream side of the image forming region, and upstream of the second protrusions, in a situation in which the second protrusions are located at the downstream side of the image forming region, and communicate with the suction device, wherein the first protrusions are arranged at such intervals that the interval on an end side of the platen is wider than that on a central portion of the platen in the direction perpendicular to the feed direction.